

## **ABSTRACT**

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### **THE ROLE OF MULTIMEDIA LEARNING IN E-LEARNING AS A COMPONENT OF TPACK TO ENHANCE KEMAMPUAN CRITICAL THINKING ON THE MATERIAL OF THE IMMUNE SYSTEM**

This study aims to determine the improvement of students' critical thinking skills by using methods of e-learning on the role of multimedia in the components of TPACK on the material of the immune system as a learning activity. The subject that used as many as 35 people a class XI MIPA 3 SMAN 12 Bandung, the design used the One Group Pretest Posttest. The level of students' critical thinking skills can be seen through the result of pretest and posttest, the types of questions used were multiple-choice with 5 alternatives of answer options. Can be seen from the score improvement (Gain= 580), from 35 students to be aware that 3 students have the tags arrived in bangkok, beginning with the number 8,57%, 25 students have the category with a number of 71,43% and 7 people have a low category with an amount of 20%. As for the results of students' response through the questionnaire it can be seen that statement 1 there is a 65% in the category enough, the statement 2 there is a 50% on the category less so, statement 3 there is a 67% in the category enough, the statement 4 are to 51.7% in the category of less once, and statement 5 there are 62% of the category enough. It can be concluded that students agree to learning using multimedia, but students do not fully understand the material because the role of media in learning has not yet reached the high category.

**Keywords:** E-learning, TPACK, students' critical thinking skills, the immune system.